

Title (en)

Light guide panel and liquid crystal display apparatus

Title (de)

Lichtleittafel und Flüssigkristallanzeigevorrichtung

Title (fr)

Panneau à cristaux liquides et appareil à affichage à cristaux liquides

Publication

EP 2672173 A1 20131211 (EN)

Application

EP 12195739 A 20121205

Priority

KR 20120061590 A 20120608

Abstract (en)

A light guide panel (LGP) for use in a liquid crystal display (LCD) apparatus includes a light-emitting pattern surface on which light-emitting patterns are formed, an opposite surface opposite to the light-emitting pattern surface, and four edge surfaces. Lenticular patterns are formed on one of the light-emitting pattern surface and the opposite surface. The light-emitting pattern surface includes a light-emitting part in which the light-emitting patterns are formed; and an edge part which extends along the four edge surfaces to enclose the light-emitting part and in which at least one fixing groove is formed to fix the LGP. The light-emitting part includes a pattern reducing region which faces the fixing groove and has a lower light-emitting pattern density than another region of the light-emitting part.

IPC 8 full level

G02F 1/1335 (2006.01); **F21V 8/00** (2006.01)

CPC (source: CN EP KR US)

G02B 6/00 (2013.01 - KR); **G02B 6/0011** (2013.01 - US); **G02B 6/0061** (2013.01 - CN EP US); **G02B 6/0088** (2013.01 - CN EP US); **G02F 1/1335** (2013.01 - KR); **G02F 1/133606** (2013.01 - CN); **G02F 1/133615** (2013.01 - US); **G02B 6/0036** (2013.01 - CN EP US); **G02B 6/0038** (2013.01 - CN EP US); **G02F 1/133607** (2021.01 - CN)

Citation (search report)

[X] EP 2259103 A2 20101208 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DE 202013100049 U 20130107; CN 201310056501 A 20130222; CN 201320081710 U 20130222; CN 201510262563 A 20130222; EP 12195739 A 20121205; EP 15182573 A 20121205; ES 12195739 T 20121205; FR 1350221 A 20130110; HU E12195739 A 20121205; JP 2013082753 A 20130411; KR 20120061590 A 20120608; KR 2013000198 W 20130110; US 201213693487 A 20121204; US 201313888632 A 20130507